V&V Reference Report
L2 ASCDS Version : 7.6.10

Observation 62237 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Jun 14 2007

Contents

1 Front

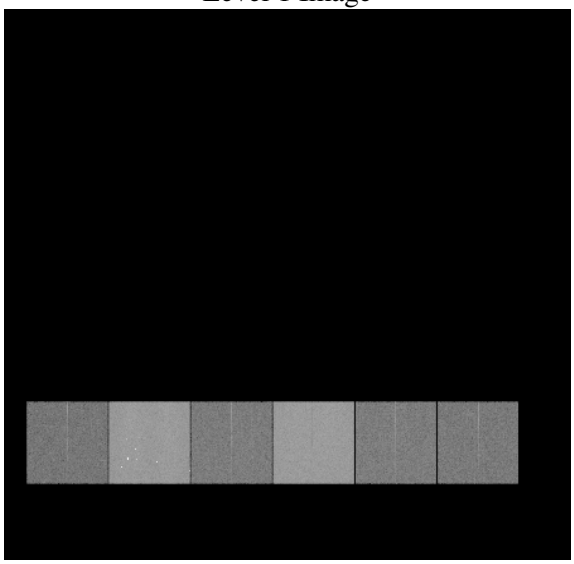
seq_num	
obs_id	62237
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
dtycycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	164.50712582299
dec_nom	-52.437879344969
roll_nom	52.269195968557
revision	3
ontime	2808.9390476197
livetime	2773.3705700587
ontime4	1078.3520809412
ontime5	2990.475046277
ontime6	1204.7114814743
ontime7	2808.9390476197
ontime8	1214.5168012083
ontime9	1159.2138612419
l2events	900364

2 OBI

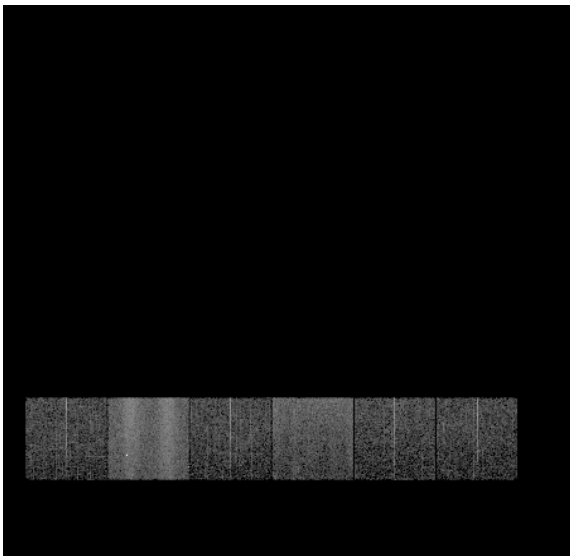
2.1 OBI

2.1.1 Images

Level 1 Image

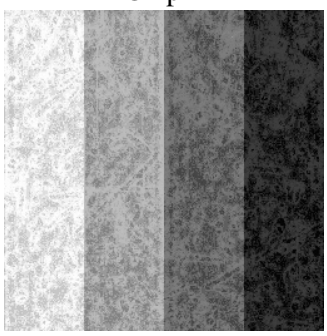


Level 1 Bad Events

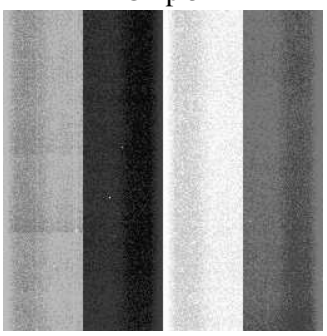


2.1.2 Bias

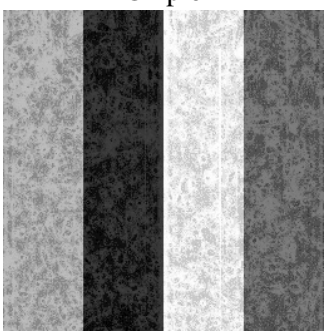
Chip 4



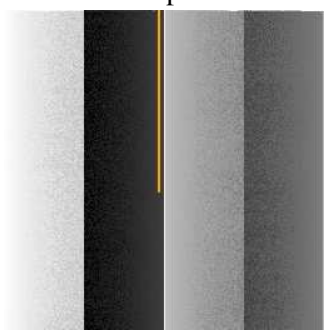
Chip 5



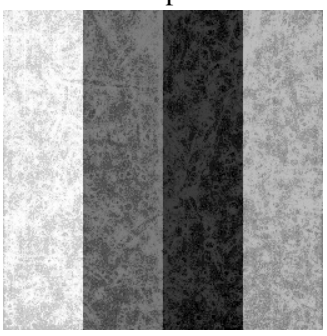
Chip 6



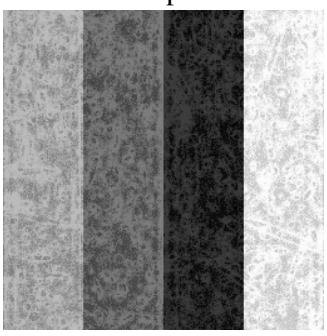
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-15T00:28:08
revision	3

sched_exp_time	0.0
ontime	2808.9390476197
ontime4	1078.3520809412
ontime5	2990.475046277
ontime6	1204.7114814743
ontime7	2808.9390476197
ontime8	1214.5168012083
ontime9	1159.2138612419
l1events	1064169

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	108322	286342	127717	291746	130395	119647
rejected events	18774	47954	19130	29031	18656	17532
rejected %	17%	16%	14%	9%	14%	14%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	20209	26193	29596	46405	39229	31186
	18%	9%	23%	15%	30%	26%
grade 1 events	71	128	119	129	174	138
	0%	0%	0%	0%	0%	0%
grade 2 events	48546	92027	51098	73924	43868	44699
	44%	32%	40%	25%	33%	37%
grade 3 events	2100	12093	3086	22414	4129	3259
	1%	4%	2%	7%	3%	2%
grade 4 events	2023	10301	2991	19912	4211	3217
	1%	3%	2%	6%	3%	2%
grade 5 events	931	5266	1057	4120	1185	1067
	0%	1%	0%	1%	0%	0%
grade 6 events	16670	97774	21816	100060	20302	19754
	15%	34%	17%	34%	15%	16%
grade 7 events	17772	42560	17954	24782	17297	16327
	16%	14%	14%	8%	13%	13%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	0	164.5071258229892
Pointing Dec	0	-52.43787934496946
Pointing Roll	0.0	52.26919596855693
SIM focus pos (mm)	-0.684267	-0.6828225247311905
SIM defocus (mm)	0	0.8505141146731063
SIM translation stage pos (mm)	-190.132523	250.466033080201
SIM translation stage offset (mm)	0	-0.01005468664627074
Observation start time	63543369.545968	63543368.77748
Observation start date	2000-01-06T10:56:10	2000-01-06T10:56:08
Observation end time	63550667.546233	63550666.777745
Observation end date	2000-01-06T12:57:48	2000-01-06T12:57:46
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	3.2	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.80893904

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.